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1 Safety critical applications and hard real-time profile for Java: a case study in avionics
  Erik Yu-Shing Hu, Eric Jenn, Nicolas Valot, Alejandro Alonso
  October 2006 JTRES '06: Proceedings of the 4th international workshop on Java technologies for real-time and embedded systems
  Publisher: ACM
  Full text available: 📄 pdf(460.39 KB)   Additional Information: full citation, abstract, references, index terms

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  Despite Java's initial promise of providing a reliable and cost-effective platform-independent environment, the language appears to be unfavourable in the area of high-integrity systems and real-time systems.To address this issue, the language environment ...

  Keywords: high-integrity systems, real-time java, safety critical systems

2 Interaction design for a mobile context-aware system using discrete event modelling
  Annika Hinze, Petra Malik, Robi Malik
  January 2006 ACSC '06: Proceedings of the 29th Australasian Computer Science Conference - Volume 48. Volume 48
  Publisher: Australian Computer Society, Inc.
  Full text available: 📄 pdf(276.74 KB)   Additional Information: full citation, abstract, references, index terms

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  This paper describes our experience when applying formal methods in the design of the tourist information system TIP, which presents context-sensitive information to mobile users with small screen devices. The dynamics of this system are very complex ...

3 Integrating concurrency control and energy management in device drivers
  Kevin Klues, Vlado Handziski, Chenyang Lu, Adam Wolisz, David Culler, David Gay, Philip Levis
  October 2007 ACM SIGOPS Operating Systems Review, Volume 41 Issue 6
  Publisher: ACM
  Full text available: 📄 pdf(762.82 KB)   Additional Information: full citation, abstract, references, index terms

Energy management is a critical concern in wireless sensornets. Despite its importance, sensor network operating systems today provide minimal energy management support, requiring applications to explicitly manage system power states. To address this ...

Keywords: concurrency, device driver architecture, energy, tinyOS

4 Integrating concurrency control and energy management in device drivers

Kevin Klues, Vlado Handziski, Chenyang Lu, Adam Wolisz, David Culler, David Gay, Philip Levis

October 2007 SOSP '07: Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles

Publisher: ACM

Full text available: 🔲 pdf(782.82 KB)   Additional Information: full citation, abstract, references, index terms

Energy management is a critical concern in wireless sensornets. Despite its importance, sensor network operating systems today provide minimal energy management support, requiring applications to explicitly manage system power states. To address this ...

Keywords: concurrency, device driver architecture, energy, tinyOS

5 IEEE 802.11 networks with dormant mode support: an IP paging approach and its performance analysis

Rafael Vidal Ferré, Josep Paradells Aspas

October 2006 MobiWac '06: Proceedings of the 4th ACM international workshop on Mobility management and wireless access

Publisher: ACM

Full text available: 🔲 pdf(462.54 KB)   Additional Information: full citation, abstract, references, index terms

IEEE802.11 networks are changing its primary role of extension of private LANs to become an access technology in competition or collaboration with current cellular networks. In addition, large-scale IEEE802.11 deployments are a reality that mesh networks ...

Keywords: IEEE802.11, IP paging, dormant mode, mobile IP, mobility management

6 Ubiquitous device personalization and use: The next generation of IP multimedia communications

Ron Shacham, Henning Schulzrinne, Srisakul Thakolsri, Wolfgang Kellerer

May 2007 ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP), Volume 3 Issue 2

Publisher: ACM

Full text available: 🔲 pdf(301.74 KB)   Additional Information: full citation, abstract, references, index terms

Service usage in emerging ubiquitous environments includes seamless and personalized usage of public and private devices discovered in the vicinity of a user. In our work, we describe an architecture for device discovery, device configuration, and the ...

Keywords: Internet multimedia, Location-based services, mobile communications,

ubiquitous computing

7 Experience with "link-up notification" over a mobile satellite link
   Martin Duke, Thomas R. Henderson, Jeff Meegan
   July 2004 ACM SIGCOMM Computer Communication Review, Volume 34 Issue 3
   Publisher: ACM
   Full text available: 📄 pdf(429.96 KB)   Additional Information: full citation, abstract, references

   Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 45, Citation Count: 0
     Over paths characterized by extended outage periods, a TCP connection can suffer a
     severe performance penalty due to its Retransmission Timeout (RTO) backoff mechanism.
     If outages are long enough, the RTO can grow large enough to cause unacceptably
     long ...

8 Multi-sensor context-awareness in mobile devices and smart artifacts
   Hans W. Gellersen, Albercht Schmidt, Michael Beigl
   October 2002 Mobile Networks and Applications, Volume 7 Issue 5
   Publisher: Kluwer Academic Publishers
   Full text available: 📄 pdf(240.60 KB)   Additional Information: full citation, abstract, references, cited by, index
                                                                  terms, review

   Bibliometrics: Downloads (6 Weeks): 50, Downloads (12 Months): 283, Citation Count: 17
     The use of context in mobile devices is receiving increasing attention in mobile and
     ubiquitous computing research. In this article we consider how to augment mobile devices
     with awareness of their environment and situation as context. Most work to date ...

     Keywords: context-awareness, mobile computing, sensor integration, ubiquitous
     computing

9 MediaAlert - a broadcast video monitoring and alerting system for mobile users
   Bin Wei, Bernard Renger, Yih-Farn Chen, Rittwik Jana, Huale Huang, Lee Begeja, David
   Gibbon, Zhu Liu, Behzad Shahraray
   June 2005 MobiSys '05: Proceedings of the 3rd international conference on Mobile systems,
              applications, and services
   Publisher: ACM
   Full text available: 📄 pdf(593.10 KB)   Additional Information: full citation, abstract, references, cited by, index
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   Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 134, Citation Count: 2
     We present a system for automatic monitoring and timely dissemination of multimedia
     information to a range or mobile information appliances based on each user's interest
     profile. Multimedia processing algorithms detect and isolate relevant video segments ...

     Keywords: alerting, automatic speech recognition (ASR), content adaptation, content
     repurposing, mobile devices, multimedia messaging, multimedia processing, news
     monitoring, notification, service platform

10 Service oriented architectures: approaches, technologies and research issues
   Mike P. Papazoglou, Willem-Jan Heuvel
   July 2007 The VLDB Journal — The International Journal on Very Large Data Bases,
              Volume 16 Issue 3

Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(618.68 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 448, Downloads (12 Months): 765, Citation Count: 0

Service-oriented architectures (SOA) is an emerging approach that addresses the
requirements of loosely coupled, standards-based, and protocol- independent distributed
computing. Typically business operations running in an SOA comprise a number of
invocations ...

Keywords: Application and service integration, Asynchronous and event-driven
processing, Enterprise bus, Service oriented architecture, Web services

11 Pillows as adaptive interfaces in ambient environments
Frank Nack, Thecla Schiphorst, Zeljko Obrenovic, Michiel KauwATjoe, Simon de Bakker,
Angel Perez Rosillio, Lora Aroyo
September 2007 HCM '07: Proceedings of the international workshop on Human-centered
                         multimedia
Publisher: ACM
Full text available: pdf(736.87 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 113, Citation Count: 0

We have developed a set of small interactive throw pillows containing intelligent touch-
sensing surfaces, in order to explore new ways to model the environment, participants,
artefacts, and their interactions, in the context of expressive non-verbal ...

Keywords: haptic sensing, human-centred computing, input devices and strategies,
presence, social interaction, tactile UIs, tangible UI, user experience design

12 Abstract user interface representations: how well do they support universal access?
Shari Trewin, Gottfried Zimmermann, Gregg Vanderheiden
November 2003 CUU '03: Proceedings of the 2003 conference on Universal usability
Publisher: ACM
Full text available: pdf(155.89 KB)   Additional Information: full citation, abstract, references, cited by, index
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Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 171, Citation Count: 6

This paper examines four XML languages for abstract user interface representation: UIML,
XIML, XForms and AIAP. It discusses whether the high level architectures of these
languages support the requirements of universal usability by allowing use of personal ...

Keywords: AIAP, UIML, XForms, XIML, abstract user interface, device-independence,
modality-independence, universal usability

13 Context-based design of mobile applications for museums: a survey of existing
     practices
Dimitrios Raptis, Nikolaos Tselios, Nikolaos Avouris
September 2005 MobileHCI '05: Proceedings of the 7th international conference on Human
                         computer interaction with mobile devices & services
Publisher: ACM
Full text available: pdf(221.03 KB)   Additional Information: full citation, abstract, references, cited by, index
                                                                       terms

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 208, Citation Count: 2

This paper includes a review of mobile applications used in museum environments, focusing on the notion of context and its constituent dimensions. Museums are a representative example in which the context influences interaction. During a museum visit, ...

Keywords: context, cultural information, interaction design, mobile devices, museums

14 Using Jini to enable pervasive computing environments
Karthik Harihar, Stan Kurkovsky
March 2005 ACM-SE 43: Proceedings of the 43rd annual Southeast regional conference - Volume 1, Volume 1
Publisher: ACM
Full text available: 📄 pdf(334.02 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 167, Citation Count: 0

Pervasive computing is a vision aimed at facilitating access to information anywhere and anytime, wherein stationary and mobile devices interact seamlessly to aid the users in their tasks. As the enabling hardware becomes smaller, smarter and cheaper ...

Keywords: Jini, mobile devices, pervasive computing, smart services

15 Abstract user interface representations: how well do they support universal access?
Shari Trewin, Gottfried Zimmermann, Gregg Vanderheiden
June 2002 ACM SIGCAPH Computers and the Physically Handicapped, Issue 73-74
Publisher: ACM
Full text available: 📄 pdf(155.89 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 171, Citation Count: 6

This paper examines four XML languages for abstract user interface representation: UIML, XIML, XForms and AIAP. It discusses whether the high level architectures of these languages support the requirements of universal usability by allowing use of personal ...

Keywords: AIAP, UIML, XForms, XIML, abstract user interface, device-independence, modality-independence, universal usability

16 WWG: a wide-area infrastructure to support groups
Joan Manuel Marquès, Leandro Navarro
September 2001 GROUP '01: Proceedings of the 2001 International ACM SIGGROUP Conference on Supporting Group Work
Publisher: ACM
Full text available: 📄 pdf(535.53 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 7, Citation Count: 2

Group learning at Internet scale is becoming more frequent in university courses. This complex process requires support by distributed computing learning support infrastructures.This paper describes the design of WWG (World-Wide Groups): a distributed ...

Keywords: CSCL environment, distance cooperative learning, event distribution, virtual groups

17 Nomadic radio: speech and audio interaction for contextual messaging in nomadic environments

Nitin Sawhney, Chris Schmandt

September 2000 ACM Transactions on Computer-Human Interaction (TOCHI),   Volume 7 Issue 3

Publisher: ACM

Full text available: pdf(648.76 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 148, Citation Count: 34

Mobile workers need seamless access to communication and information services while on the move. However, current solutions overwhelm users with intrusive interfaces and ambiguous notifications. This article discusses the interaction techniques developed ...

Keywords: adaptive interfaces, contextual interfaces, interruptions, nonspeech audio, notifications, passive awareness, spatial listening, speech interaction, wearable computing

18 Web100: extended TCP instrumentation for research, education and diagnosis

Matt Mathis, John Heffner, Raghu Reddy

July 2003 ACM SIGCOMM Computer Communication Review,   Volume 33 Issue 3

Publisher: ACM

Full text available: pdf(215.29 KB)   Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 41, Citation Count: 12

TCP has become the dominant protocol for all network data transport because it presents a simple uniform data delivery service which is sufficient for most applications over all types of lower network layers. By its very nature, TCP's adaption and retransmission ...

Keywords: Net100, TCP Performance, Web100, instrumentation

19 Proceedings of the 2008 ACM symposium on Applied computing

Roger L. Wainwright, Hisham M. Haddad

March 2008 proceeding

Publisher: ACM

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

Welcome to the 23rd Annual ACM Symposium on Applied Computing (SAC 2008). This international event is dedicated to computer scientists, engineers, and practitioners seeking innovative ideas in various areas of computer applications. This year, the conference ...

20 MACE: adaptive component management middleware for ubiquitous systems

Mohamed Ahmed, Robert Ghanea-Hercock, Stephen Hailes

November 2006 MPAC '06: Proceedings of the 4th international workshop on Middleware for Pervasive and Ad-Hoc Computing (MPAC 2006)

Publisher: ACM

Full text available: pdf(237.33 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 87, Citation Count: 0

If the hype is to be believed, we have come very close to the realisation of a ubiquitous computing environment. There are already a wide variety of devices, networking technologies and bespoke services; and yet the vision of anywhere anytime computing ...

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